

Methods and Certain Results of ~~W~~ the Measurement
of the Critical Load During the Transition From
Film to Bubble Boiling, by B. S. Petukhov,
S. A. Kovalev, 15 pp.

RUSSIAN, per, Teploenergetika, Vol X, No 5, 1962,
pp 65-~~66~~ 70. 9679789

FTD-TT-62-1456

224,751

Sci-ENgr
Mar 63

Methods of Generalizing Experimental Data on
Convective Heat Transfer During the Movement of
Gas in the Initial Region of a Conduit, by
S. I. Kosterin, A. I. Leont'yev, et al, 9 pp.

RUSSIAN, per, Teploenergetika, Vol X, No 5, 1962,
pp 70-72. 9679789

FTD-TT-62-1456

Sci- [redacted] Phys
Mar 63

224,752

Gurvich, A. M. and Pludovskaya, G. M.
COMBUSTION AND HEAT EMISSION CHARACTERISTICS OF A PULVERISED-COAL FLAME. [1963]
[13p] 2refs C. E. Trans. 2851.
Order from OTS, SLA, or ETC \$1.60 TT-63-24097

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 6,
p. 3-9. (Abstract available)

DESCRIPTORS: Flames, *Coal, *Fuels, *Combustion,
Particles, Furnaces, Thermal radiation,

The possibility of calculating the burn-up of pulverised
coal and the degree of darkness of the flame is ex-
amined on the basis of results of investigation of the
main characteristics of a round pulverised-coal burner.
(Author)

(Materials--Fuels, TT, v. 11, no. 3)

TT-63-24097

- I. Gurvich, A. M.
- II. Pludovskaya, G. M.
- III. Cf Trans-2851
- IV. Central Electricity Generating Board (Gt. Brit.)

Office of Technical Services

An Approximate Solution to a Two-Dimensional
Stationary Heat-Conduction Problem and its
Use in the Determination of the Effect of
Artificial Cooling of Turbine Components, by
D. A. Pereverzev, 19 pp.

RUSSIAN, per, Teploenergetika, No 6, 1962,
pp 24-31, 9668341

XTB:XIP
FTD-TT-62-1738

Sci-engr
apr 63

229,433

Determination of Efficiency of Separate Sets
of Stages in Steam Turbine Testing, by
A. K. Kirsh, G. M. Konovalov.

RUSSIAN, per, Teploenergetika, Vol IX, No 29,
No 6, 1962, pp 35-37.

NLM N 3968

Sci - Engr
Feb 63

223, S65

Critical Heat Loads in High-Pressure Boiling of
Underheated Water in Small Diameter Tubes,
by A. P. Ornatskiy, A. M. Kichigin, 6 pp.
RUSSIAN, per, Teploenergetika, Vol IX, No 6,
1962, pp 44-47. 9224959
AEC-ORNL-Tr-107

Sci-Chem
Oct 64

268,525

Economic Efficiency of Hydroelectric Power Stations
and Thermal Electric Power Stations Being Replaced,
by A. A. Beschinskiy, M. P. Fel'dman, 3 pp.

RUSSIAN, per, Teploenergetika, No 6, 1962,
pp 79-82.

JPRS 15529

USSR
Econ
Oct 62

Thermal Conductivity of a Mixture of He and Xe
at Atmospheric Pressure, by S. A. Ulybin.

XX RUSSIAN, per, Teploenergetika, No 6, 1962,
pp 37-88.

*UKAEA/Windscale
Tr No 12

Sci - Phys

May 63

Optimum Diffuser Shape, by I. Ye. Virozub,
A. Sh. Dorfman, 13 pp.

RUSSIAN, per, Teploenergetika, No 6, 1962,
pp 88-91. 9668341

FTD-TT-62-1738

sci-engr
apr 63

129,434

May 24 1991 / APL 793

Nomograms for the Approximate Calculation of
Profile Flow in Turbine Grills, by
G. Ya. Shnitsor, 13 pp.

RUSSIAN, per, Teploenergetika, No 6, 1962,
pp 92, 93. 9668341

PTD-TT-62-1738

sci-engr
apr 63

229, 425

OVER-ALL AUTOMATION OF ELECTRIC POWER STATIONS OF
HIGH CAPACITY WITH THE USE OF CONTROL COMPUTERS,
BY YE. P. STEFANI, 17 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 7, 1962, PP 3-10.

JPRS 15608

USSR
ECON
SCI - ENGR
OCT 62

213,459

Title Unknown, by M. P. Vukalovich, et al.
RUSSIAN, per, Teploenergetika, Vol VII,
1962, pp 18-22.
RAND LT 67-14

Sci
May 67

324,990

Duel, M. A. and Marenko, A. F.
AN- UND ABFAHREN EINES 50 MW-BLOCKS UNTER
VERWENDUNG EINER STEUERNDEN RECHIENMA-
SCHINE (Starting and Departing of a 50 MW-block by
Using a Steering Computer). 14p.
Order from TIB \$2.35

Trans. In German of Teploenergetika (USSR) 1962
[v. 9] no. 7, p. 18-22.

DESCRIPTORS: *Starting, *Computers, Automation.

(Machinery--Engines, TT, v. 9, no. 11)

62-27259

I. Duel, M. A.
II. Marenko, A. F.
III. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Determining the Iron Content in the Water
of a 250 Steam Power Plant Installation,
by Yu. M. Kostrikin, N. M. Kalinina.

RUSSIAN, per, Teploenergetika, Vol IX, No 7,
1962, pp 37-42.

(LOAN) NIL Ref. 9022.07 1963 (2,88)
CEGB 283B

Sci - M/M
Oct 63

O7S SLA 63-23968

Tretyakov, P. G.
VERSUCHE MIT DEM ANFAHREN DER WPT-50-3-
TURBINE MIT KOMBINIERTER VORWÄRMUNG
(Starting Tests of the WPT-50-3-Turbine with Com-
bined Preheating). 10p.
Order from TIB \$1.80

Trans. In German of Teploenergetika (USSR) 1962
[v. 9] no. 7, p. 42-45.

DESCRIPTORS: *Starting, *Tests, *Turbines,
Heat treatment.

(Machinery--Engines, TT, v. 9, no. 11)

62-27284

I. Tretyakov, P. G.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Profiling and Investigation of Top Sections of
Moving Blades in the Final Stages of Large Steam
Turbines, by B. M. Troyanovskiy, E. B. Maiorskii.

RUSSIAN, per, Teploenergetika, Vol IX, No 7,
1962, pp 46-49.

MLL Ref: 5828.4 1962 (5,228) (loan)

Sci - Electron
Jul 63

236,117

Determination of Speeds in Axial Turbomachines,
Taking into Account Distortion of Current Lines
in Meridional Plane, by A. N. Sherstyuk,
V. P. Novoderezhkin, 10 pp.

RUSSIAN, per, Teploenergetika, No 7, 1962,
pp 50-53. 9682734

FTD-TT-62-1784

Sci-Engr
May 63

129,520

Heat Transfer in Turbine Grids, by
L. M. Zysina-Molozhen, M. P. Polyak, et al,
8 pp.

RUSSIAN, per, Teploenergetika, No 7, 1962,
pp 77-80. 9682734

FTD-TT-62-1784

Sci-Engr
May 63

229,521

The Effect of Channel Geometry on the Critical
Heat Loads in the Forced Flow of Water, by
B. A. Zenkevich, O. V. Remizov, V. I. Subbotin,
6 pp.

RUSSIAN, par, Teploenergetika, Vol IX, No 7, 1962,
pp 81-83. 920279

AMC-Tr-5538

Sci - Phys

6 Mar 63

224,219
~~123,019~~

MISTAKES OF THE ASSOCIATE MEMBER OF THE ACADEMY OF
SCIENCES USSR, Z. F. CHUKHANOV, BY V. V. BOLOTOV,
V. R. OKOROKOV, 11 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 7, 1962,
PP 84-87.

JPRS 15608

SCI - MISC

OCT 62

213,460

XX

THEORY OF DETERMINATION OF THE EFFECTIVENESS OF
CAPITAL INVESTMENTS, BY D. M. YURINOV, YE. A.
YELOKHIN, 10 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 7, 1962,
PP 87-89.

JPRS 15608

USSR
ECON
OCT 62

213,461

Production and Use of High-Temperature Tube
Steels, by M. V. Fridantsev, K. A. Lanekaya.

RUSSIAN, per, Teploenergetika, No 8, 1962,
pp 2-6.

BIBI 3108

229,478

Sci - N/M
Apr 63

Panfilov, V. A.

START-UP SYSTEMS FOR LARGE BOILER-TURBINE UNITS. [1963] [6p] 4refs C. E. Trans. 2900. Order from OTS, SLA, or ETC \$1.10 TT-63-24090

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 8, p. 21-23. (Abstract available)

DESCRIPTORS: *Steam turbines, *Steam valves, Starting, Control systems, Steam,

Two steam turbine start-up systems are discussed. (1) A partially isolated start-up system having special start-up valves in the steam distribution system of the twin-shaft turbine, which deliver steam direct into the h.p. and i.p. turbine cylinders. The relief valve of the main control valve acts as the start-up valve for the ultra-high pressure cylinder. This system does not solve the problems of symmetrical warm-up of the h.p. (Machinery--Engines, TT, v. 11, no. 4) (over)

TT-63-24090

I. Panfilov, V. A.
II. CE Trans-2900
III. Central Electricity Generating Board (Gt. Brit.)

Office of Technical Services

Study of the Dynamics of a Boiler
(67-2SP)-Turbogenerator (K-50-90) Unit, by
V. A. Domentyev, et al.

RUSSIAN, per, *Toploenergetika*, Vol IX,
No 8, 1962, pp 23-31.

NLL Ref: 9022.09 1963 (1990) (Loan)

Set - Engr
Feb 64

248,589

A Method of Using Electronic Computers to Compute
the Characteristics of Condensing-Turbine Thermal
Power Stations, by V. S. Shakhanov.

RUSSIAN, per, Teploenergetika, Vol IX, No 8, 1962,
pp 32-39.

NLL(LOAN)Ref: 9022.09 1963 (2991)

Sci-Engr
April 64

New Method of Shaping Guide Blade Cascades for
Stages With a Small d/, by M. E. Deich, et al, 13 pp.

RUSSIAN, per, Teploenergetika, No 8, 1962, pp 42-47.

CIA FDD-XX-1325
NO FOREIGN DISSEM

Sci - Engr
Feb 63

NLC Ref: 9022.03 1963 (3277) (LOHN)

USIB INTERNAL USE ONLY

221,239

Calculating Radial Overflows in a Turbine Stage,
by G. V. Zhukovskiy, 11 pp.

RUSSIAN, per, Teploenergetika, No 8, 1962,
pp 47-51. 9668619

PTD-TT-63-81

Sci-Engr
May 63

230,846

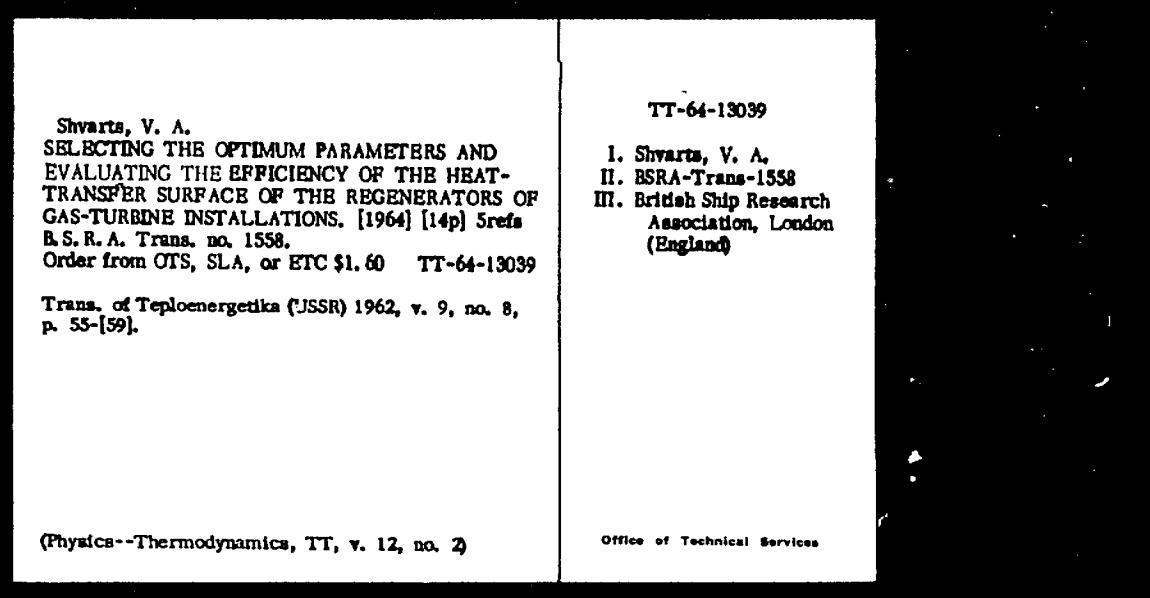
Measuring Pressure Pulsations and Dynamic Stresses
on Rotating Vanes of an Axial Compressor,
by G. S. Samoylovich, I. N. Pis'min, 8 pp.

RUSSIAN, per, Teploenergetika, No 8, 1962,
pp 51-55. 9668619

PTD-TT-63-81

Sci-Engr
May 63

230,847



<p>Panasenko, M. D. and Koslov, Yu. V. INVESTIGATION OF SEPARATING EQUIPMENT FOR HIGH CAPACITY DRUM BOILERS. [1963] [6p] (figs omitted) 4refs Order from OTS or SLA \$1.10 63-20391</p> <p>Trans. of Teploenergetika (USSR) 1962 [v. 9] no. 8 [p. 69-72].</p> <p>DESCRIPTORS: *Boilers, *Steam, Separation, Moisture.</p> <p>Results of investigation are given for a corrugated plate-type separator with its entering rim placed at a small vertical angle (14°). The investigation was performed at pressures of 17, 40, 100 and 150 ata, and at various loads and initial moisture contents. (Author)</p> <p>(Engineering--Mechanical, TT, v. 10, no. 12)</p>	<p>63-20391</p> <p>I. Panasenko, M. D. II. Koslov, Yu. V.</p> <p>NLL (LCAN) Ref 9022.02 1963 (3,326)</p> <p>CFSTI TT 63-20391</p> <p>Office of Technical Services</p>
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Experimental Investigation of the Conditions of
Deterioration of Heat Transfer During Boiling
in Tubes, by A. S. Kon'kov, V. V. Modnikova, 10 pp.

RUSSIAN, per, Teploenergetika, Vol IX, No 8, 1962,
pp 77-81. 9208270

075.1.82A 62-23766

ABC Tr-5539

(LOAN) NLL Ref. 90 22.09 1963 (2,932)

124,217

Sci - Phys

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6 Mar 63

Title Unknown, by Vukalovich, M. P. et al.
RUSSIAN, per, Teploenergetika, No 8,
1962, pp 81-86.
RAND LT 67-32

Sci-
May 67

324,992

XKGWKK

The Physical and Chemical Fundamentals of Magnetic
Water Treatment, by V. I. Minenko, S. M. Petrov, 7 pp.
RUSSIAN, per, Teploenergetika, No 9, 1962.
JPRS 25794

Sci-Chem
Aug 64

265,105

The Problem of Economy of Fuel in Electric
Power Systems, by A. S. Forshkov, 13 pp.

RUSSIAN, per, Teploenergetika, No 9, 1962,
pp 2-7.

JPRS 16039

USSR
Econ
Sci - Electricity
Nov 62

217,536

ON THE USE OF NEW FUEL PRICES WHEN CALCULATING
THE EFFECTIVENESS OF THE NEW TECHNOLOGICAL
MEASURES IN ELECTRIC POWER ENGINEERING, BY
A. YA. AVRUKH, 7 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 9, 1962,
PP 7-9.

JPRS 16569

USSR ECON DEC 62

217,317

Principles of Constructing a Control-Computer
Algorithm for the Overall ~~Automation~~ Automation
of a Boiler Turbine Unit, by V. M. Rushchinskiy.

RUSSIAN, per, Teploenergetika, No 9, 1962, pp 11-17.

*UKAEA-Winfrith Heath-
Tr-17

Sci - Nucl Sci

Jul 63

On loan only

Hydraulic Design of Air Cooling Systems for Multi-stage Gas Turbines by Using Electric Models, by
I. T. Shvets.
RUSSIAN, per, Teploenergetika, No 9, 1962, pp 14-17.
NASA TT F-78

Sci - Engr
Mar 64
MX

251,959

Starting and Stopping a 50 M-W Boiler-Turbine Unit ~~XMM~~
Incorporating a Control Computer, by M. A. Dual,
A. F. Mar'enko.

RUSSIAN, per, Teploenergetika, No 9, 1962, pp 13-22.

*UKAEA-Winfrith Heath-
Tr-18

Sci - Nucl Sci

Jul 63

Special Features of the Performance of the Control Computer as the Digital Controller of a Boiler-Turbine Unit, by V. N. Levitskiy.

RUSSIAN, per, Teploenergetika, No 9, 1962, pp 22-27.

*UNAEA-Winfrith Heath-
Tr-19

Sci - Nucl Sci

Jul 63

Investigation of a Two-row Stage with
Divergent-convergent Blade Passages, by
V. D. Pashenichnyi.

RUSSIAN, per, Teploenergetika, 1962, Vol 9,
No 9, pp 32-36.

NLL 9022.065 1964 (1806) (On Loan)

Aug 65

287,185

Thermal Conditions of Finned Water-Walls, by
A. L. Bychkovskiy.

RUSSIAN, per, Teploenergetika, No 9, 1962,
pp 36-42.

NLL Ref: 9022.09 1964 (3270) (loan)

May 64

Operation of a Natural Circulation Circuit
at Different Loads and Pressures, by G. A.
Dzhigit.

RUSSIAN, per, Teploenergetika, No 9, 1962,
pp 42-46.

*UKAEA Risley
Tr No 359

Sci - Electron
28 Feb 1963

<p>Stirikovich, M. A., Martinova, O. I. and others. INVESTIGATION OF THE BEHAVIOR OF MAG-NESIUM COMPOUNDS IN A SUPERCRITICAL-PRESSURE BOILER (Issledovanie Povedeniya Soedinenii Magniya v Trakte Kotla Sverkhkriticheskogo Davleniya). [1962] 13p. (foreign text included) 7 refs. Order from OTS or SLA \$1.60 63-15701 Trans. <u>Teploenergetika</u> (USSR) 1962 [v. 9] no. 9, p. 46-49.</p> <p>DESCRIPTORS: *Magnesium compounds, Pressure, Steam, *Boilers, Feed water, Tests.</p> <p>(Chemistry, TT, v. 10, no. 7)</p>	<p>63-15701 I. Stirikovich, M. A. II. Martinova, O. I.</p> <p>Office of Technical Services</p>	
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<p>Kagan, D. Ya. and Kaganov, T. A. ON PHOSPHATE CONTROL IN BOILER WATER (O Fosfatnom Rezhime Kotelov Vody). [1962] 16p. (foreign text included) 9 refs. Order from OTS or SLA \$1.60 63-15698 1,10 63-23975 (10pp) Trans. of Teploenergetika (USSR) 1962 [v. 9] no. 9, p. 62. (SP) DESCRIPTORS: *Corrosion, Boiler, Steam, *Boiler tubes, *Feed water, Corrosion Inhibition, Films, *Sodium compounds, *Phosphates, Hydrogen.</p> <p><i>Dept of Interior INT 137 No 751</i></p> <p>(Metallurgy--Corrosion, TT, v. 10, no. 3)</p>	<p>63-15698</p> <p>I. Kagan, D. Ya. II. Kaganov, T. A.</p> <p>Office of Technical Services</p>
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S-812/64

Physico-Chemical Bases of the Magnetic Treatment of
Water, by V. I. Minenko, S. M. Petrov. (DC-10687)

RUSSIAN, per, Teploenergetika, No 9, 1962,
pp 63-65.

*JPRS

Sci - Chem
30 Jul 64

Investigation of a Corrugated Extended Heat-Transfer Surface for Boiler Rotating Air Heaters,
by V. K. Migai, L. N. Slobodskaya.

RUSSIAN, per, Teploenergetika, Vol IX, No 9,
1962, pp 68-70.

NLL Ref: 902209 1963 (2992) (lmoan)

May 64

Isachenko, V. P.

THE MECHANISM AND CRITERIAL EQUATIONS OF
HEAT TRANSFER FOR THE DROPOWISE CONDENSA-
TION OF STEAM. [1963] (10p) 10refs. C. E.
Trans. 2993.

Order from OTS or SLA \$1.10 63-24092

Trans. of Teploenergetika (USSR) 1962, v. 9 [no. 9]
p. 81-85.

DESCRIPTORS: *Steam, Condensation, Drops, *Heat
transfer, Equations, Thermodynamics.

Some aspects of the mechanism of dropwise condensa-
tion are examined. The role of thermo capillary move-
ment is examined. A set of similarity criteria suitable
for generalizing the experimental data on heat transfer
for dropwise condensation, is derived. (Author)

(Physics--Thermodynamics, TT, v. 10, no. 12)

63-24092

- I. Isachenko, V. P.
- II. CB Trans-2993
- III. Central Electricity
Generating Board
, (Gt. Brit.)

Office of Technical Services

ON THE ERRONEOUS THEORETICAL POSITIONS AND
INCORRECT ECONOMIC CALCULATIONS OF Z. F.
CHUKHANOV ON ELECTRIC POWER, BY A. G.
ZAKHARIN, 9 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 9, 1962,
PP 86-88.

JPRS 16569

USSR
ECON
DEC 62

217,318

FUNDAMENTAL METHODS OF ECONOMIZING FUEL IN POWER
SYSTEMS, BY A. S. GORSHKOV, 7 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 10,
OCT 1962, PP 2-9.

JPRS 16826

USSR
ECON
JAN 63

219,037

Using Radioactive Isotopes to Investigate
the Wear of Ball-Mill Balls, by E. Ya.
Sapekovich.

MESSIAN, per, Teplotemperatura, Vol 9,
Oct 1962, pp 10-13.
(TMS 1353)
CMW 3430

314,396

Sci - Materials
Nov 66

Using Radioactive Isotopes to Investigate the
Wear of Ball Mill Balls, by E. Ya. Shpakovich.
RUSSIAN, per, Teploenergetika, Vol IX, No 10,
1962, pp 10-13.

NLL Ref: 9022.09 1964 (34390) (loan copy)

Sci
Sep 64

Counter-Current Silica Removal in the Chemical
Water-Demineralizing Cycle, by A. M. Prokhorova.

RUSSIAN, per, Teploenergetika, Vol IX, No 10,
1962, pp 21-26.

NLL Ref: 9022.09 1963 (3125) (Loan)

Sci
Feb 64

Zenkevich, Yu. V. and Dement'ev, B. G.
KINETICS OF THE DISSOLUTION OF SILICA IN
STEAM. [1963] [12p] 8refs C. E. Trans. 3008.
Order from OTS or SLA \$1.60 63-29978

Traas. of Teploenergetika (USSR) 1962, v. 9, no. 10,
p. 26-31.

DESCRIPTORS: *Steam, *Silicon compounds,
*Dioxides, *Reaction kinetics, Fluosilicic acids,
Solubility, Quartz, Temperature, Pressure.

Results are presented of an experimental investigation
of the kinetics of the dissolution of silica in superheated
steam at pressures of up to 92 ata. Two types of flow
reactors, one with quartz tubes and the other with a
filling of crushed vitreous quartz, were used. The use
of an equation for the kinetics of the dissolution process
demonstrated that the equilibrium silica contents of
steam are different in the case of contact with vitreous
(Chemistry--Physical, TT, v. 10, no. 12) (over)

63-23978

- I. Zenkevich, Yu. V.
- II. Dement'ev, B. G.
- III. CE Trans. 3008
- IV. Central Electricity
Generating Board
(Gr. Brit.)

NLL (LOAN) RET
9022.09 1913(3,00)

Office of Technical Services

An Experimental Control System for a 67-2SP
Boiler and K-50-90 Turbine Unit Using a Control
Computer, by V. M. Ruschinskiy, et al.

RUSSIAN, per, Teploenergetika, Vol IX, No 10,
1962, pp 32-35.

NLL Ref: 9022.09 1963 (3046) (Loan)

Sci .
Feb 64

De-aeration in Steam Turbine Condensers,
by A. I. Kirsh, 12 pp.

RUSSIAN, per, Izobesnergetika, Vol IX,
No 10, 1962, pp 35-40.

OTIS TT-63-23980
NLL Ref. 9022.09 1963 (3,047)
(Loan)

Sci - Engr
Nov 63

242,338

The Problem of Improving Turbine Stages
Which Operate on Wet Steam, by I. I. Kirillov.

RUSSIAN, per, Teploenergetika, No 10, 1962,
pp 41-47.

NLL Ref: 5828.4 1963 (5266)
(Loan)

Sci - Engr
Jul 63

238,139

Investigation of New M.E.I. Nozzle Cascades
for Supersonic Velocities, by M. Ye. Deych,
A. V. Gubarev, et al, 13 pp.

RUSSIAN, per, Teploenergetika, No 10, 1962,
pp 47-52. 9681625

Sci-Engr
May 63

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PTD-TT-63-99
NLL Ref. 9022.03 1963 (3279)
(L7A14) 229,494

Temperature Stresses in a 12KhMF (Cr-Mo-V)
Steel Boiler Steam Line During Warm Up, by
D. P. Elizarov.

RUSSIAN, per, Teploenergetika, Vol IX, No 10,
1962, pp 59-64.

NLL Ref: 9022.09 1963 (3041) (Loan)

Sci [unclear]
Feb 64

Study of Heat Emission During the Condensation of
Moving Steam in a Horizontal Pipe, by L. D. Berman,
Yu. A. Tumanov, 17 pp.
RUSSIAN, per, *Teploenergetika*, Vol IX, No 10,
1962, pp 77-83. 9693249
FTD-TT-64-301

7/11/67 AEC-ORNL-TR-1731 P 911340067

Sci - Engr
Jul 64

263,737

Calculation of Thermodynamic Properties of
Potassium at Temperatures of up to 1300°C
and Pressures of up to 25 kg/cm²,
by M. P. Vukalovich.
RUSSIAN, per, Teploenergetika, Vol 9, No 10,
1962, pp 65-72.
NASA TT F-9862

Sci-Chem
Apr 66

298,810

Calculation of the Pressure-Head Characteristics
of Axial Helical Impellers, by V. I. Dumov,
17 pp.

RUSSIAN, per, Teploenergetika, No 11, 1962,
pp 25-27. 9684610

PTD-TP-63-407

Sci-Engr
July 63

235,840

Experimental Dynamic Characteristics of
a TP-80 Sigh Single Boiler, VPT-50 Single-
Turbine Generating Unit, by V. N. Levitskiy,
E. G. Soboleva, 6 pp.

RUSSIAN, per, Teploenergetika, Vol IX,
No 11, 1962, 2 pp 34-36.

970 TT-65-23707
NLL Ref. 9022.09 1963 (3,045)
(Loan)

Sci - Engr
Nov 63

242, 339

XX WHAT BLOCKS SHOULD WE USE IN THE DEVELOPMENT
OF OUR ELECTRIC POWER INSTALLATIONS, BY
YU. N. FLAKSERMAN, 11 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 11, NOV 1962,
PP 37-40.

JPRS 16843

USSR
ECON
JAN 63

218,610

Veselov, V. T., Darovskii, R. T., Lozinakii, R. P.,
and Khirin [G. D.]

THE INSTALLATION AND TESTING OF MP-VTI
TYPE 43, 00mm. DUST COLLECTORS. [1963] [9p]
C. E. Trans-3063.

Order from OTS, SLA, or ETC \$1.10 TT-63-24089

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 11,
p. 41-45.

Descriptors: *Dusts, Collecting methods, Boilers,
Waste gases, Particle size, Electrostatic precipitation,
Cleaning, Sanitary engineering.

TT-63-24089

- I. Veselov, V. T.
- II. Darovskii, R. T.
- III. Lozinakii, R. P.
- IV. Khirin, G. D.
- V. CE Trans-3063
- VI. Central Electricity
Generating Board
(Gt. Brit.)

(Engineering--Sanitation, TT, v. 11, no. 2)

Office of Technical Services

Kryzhanovskii, V. A. COAL PASSAGE ALONG THE FUEL DELIVERY LINE. [1964] [10p] C. E. Trans. 3022. Order from OTS, SLA, or ETC \$1.10 TT-64-15279 Trans. of Teploenergetika (USSR) 1962, v. 9, no. 11, p. 47-51.	TT-64-15279 I. Kryzhanovskii, V. A. II. CE-Trans-3022 III. Central Electricity Generating Board. London (England)
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(Machinery--Transport, TT, v. 11, no. 12)

Office of Technical Services

Accumulation and Treatment of Damage to Pearlitic
Steels During Performance, by P. A. Antikain.
RUSSIAN, per, Teploenergetika, Vol IX, No 11, 1962,
pp 59-62.
CEGB 3023

Sci - M/M
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255,114

Gotlib, E. A., Polyakova, R. B., and Yashchenko, Ya. V.

WELDING PIPES MADE OF BRAND EI-695R AND EP-17 AUSTENITIC STEELS. [1963] [10p] C. E. Trans. 2904.

Order from OTS or SLA \$1.10 63-23972

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 11, p. 63-67.

DESCRIPTORS: *Welding, *Pipes, *Steel, Austenite, Ferrites, Welds, Welding rods, Electrodes, Chromium alloys, Nickel alloys, Fracture (Mechanics),

Experimental work was performed to determine a method of preventing hot cracks in the seams when welding austenitic chrome-nickel steels. Satisfactory resistance to the formation of hot cracks was obtained in the case of EP-17 steel by the introduction of a certain quantity of ferrite into the weld metal by the use of (Metallurgy, TT, v. 10, no. 12) (over)

63-23972

I. Gotlib, E. A.
II. Polyakova, R. B.
III. Yashchenko, Ya. V.
IV. CE Trans-2904
V. Central Electricity Generating Board (Gt. Brit.)

NLL (LOAN) Ref:
902209 1963(2904)

C E G B 2904

Office of Technical Services

Study of the Dissolution of Boiler Scale by Complexing Reagents, by A. P. Mamet, E. F. Valsova.

RUSSIAN, per, Teploenergetika, Vol IX, No 11, 1962, pp 69-74.

NLL Ref: 9022.09 1963 (3134) (Loan)

Sci REC'D-FD-Tech (2011.10.2)
Feb 64 10 AM

Large-Capacity Ball Mills, by M. I. Kiselgof,
K. Ya. Polferov.

RUSSIAN, per, Teploenergetika, Vol IX, No 12,
1962, pp 2-9.

NLL Ref: 9022.09 1963 (3059) (Loan)

Sci
Feb 64

2/17/64 [initials]

Research Into Conditions for Pulverizing
Anthracite Dust in a Conical Ball Mill, by
L. M. Kapel'son, B. S. Karpov.

RUSSIAN, per, Teploenergetika, No 12, 1962,
pp 9-13.

NLL RTS 2332 (loan)

OTS-TT-64-19108

Sep 64

Shagalova, C. L. and Reznik, V. A.
FLOW OF GASES THROUGH DUCTS DURING DUST
EXPLOSIONS. [1964] [7p] 4refs C. E. Trans. 3025.
Order from OTS, SLA, or ETC \$1.10 TT-64-15277

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 12,
p. 19-21.

TT-64-15277

- I. Shagalova, C. L.
- II. Reznik, V. A.
- III. CE-Trans-3025
- IV. Central Electricity
Generating Board,
London (England)

(Mechanics--Hydrodynamics, TT, v. II, no. 12)

Office of Technical Services

Kropp, L. I.
INVESTIGATION OF LOCAL HEAT LOADS IN A
HIGH PRESSURE PLATEN SUPERHEATER. [1963]
[11p] Srefs C. E. Trans. 3030.
Order from OTS or SLA \$1.60

63-24095

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 12,
p. 31-37.

DESCRIPTORS: Metal plates, High pressure research,
Gases, Temperature, Gas flow, *Boilers, Design.

The article describes the local heat load investigational
results of the most loaded sectors of superheater
platens of a high pressure boiler fired with pulverized
anthracite. Certain recommendations are suggested in
the design of superheaters in large-capacity-boiler
units. (Author)

(Machinery--Engines, TT, v. 10, no. 12)

63-24095

- I. Title: Superheaters
- II. Kropp, L. I.
- III. CE Trans-3030
- Central Electricity Generating Board (Gt. Brit.)

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Problem of Improving Turbine Stages
Operating on Wet Steam, by I. I. Kirillov,
P. M. Jablonik, 21 pp.
RUSSIAN, per, Teplo-Energetika, No 10,
1962, pp 41-47.
CIA/FDD X-6050

Sci - Energy Conversion
Jan 67
FOR OFFICIAL USE ONLY

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Heat Transfer in the Condensation of Water
Vapor in the Form of Drops, by XXXXXXXXX
V. P. Isachenko.

RUSSIAN, per, Teploenergetika, No 12,
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Critical Boiling Point in the Flow of 96% Ethyl
Alcohol Under Low Heating Conditions,
by P. I. Povarnin, 7 pp.
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1962, pp 57-63. 9223470
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AEC-ORNL-Tr-108

Sci-Phys
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Thermal Conductivity of Heavy Water Vapour, by
N. B. Vargaftik, O. N. Oleashchuk.

RUSSIAN, per, Toploenergetika, No 12, 1962, pp 64-66.

MLL RPS 2266 (Zoon)

Sci - Physics
Feb 64

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CONFERENCE OF ELECTRIC POWER MACHINE BUILDERS
AND ALLIED INDUSTRIAL BRANCHES, BY M. F.
SICHIKOV, 9 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 12,
1962, PP 83-~~85~~85.

JPRS 17380

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ECON
JAN 63

221,026

BRANCH MEETING OF POWER MACHINE BUILDERS, BY
M F SICHIKOV, 15 PP.

RUSSIAN, PER, TEPLOENERGETIKA, NO 12,
1962, PP 83-85.

JPRS 18051

SCI - ENGR

MAR 63

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The Structure, Parameters and Interaction of
Super-sonic Jets in Modern Vacuum Pumps,
by S. I. Kosarin.

RUSSIAN, per, *Tekhnicheskaya Mekhanika*, Vol 1,
1969, pp 445-461.

*FTD-MT-65-206

Sci-Engr
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<p>Levchenko, B. L. and Shvets, V. N. STARTING UP A 50MW UNIT BY STEAM WITH SLIDING PARAMETERS. [1963] [14p] 3refs C. E. Trans. 3044. Order from OTS or SLA \$1.60 63-24098</p> <p>Trans. of Teploenergetika (USSR) 1963, v. 10, no. 1, p. 2-8.</p> <p>DESCRIPTORS: *Boilers, *Turbines, Starting, Steam.</p> <p>Results are given of an experimental investigation into the conditions of starting up a 50MW unit by steam with sliding parameters. Recommendations are proposed on the start-up conditions as well as on the unit equip- ment for starting up with sliding parameters. (Author)</p> <p>(Engineering--Mechanical, TT, v. 10, no. 12)</p>	<p>63-24098</p> <p>I. Levchenko, B. L. II. Shvets, V. N. III. CE Trans-3044 IV. Central Electricity Generating Board (Gt. Brit.)</p> <p>Office of Technical Services</p>	
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Determination of Total Kinetic Combustion
Characteristics of Pulverized Coal, by
B. D. Katsnel'son, I. Ya. Marone.
RUSSIAN, per, Teploenergetika, Vol X, No 1,
1963, pp 26-28.
NLL Ref: 9022.09 1964 (3183) (loan copy)

Sci
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Performance of the Radient Section of the
PK-12 Boiler, by Yu. A. Gold'berg.

RUSSIAN, per, Teploenergetika, Vol X, No 1,
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MLL Ref: 9022.09 1964 (3378)
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An investigation of the heat transfer and aerodynamic resistance of convective heating surfaces, by G. I. Lushnov, E. Ya. Titova,
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NLL RIS 2509
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Sci - Eng
May 67

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Heat Transfer to Liquids Boiling in Pipes and
During Bulk Boiling, by I. T. Aladiev, 12 p.
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RSIC-530

Sci-Phys
Jul 66

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Safety Factors and the Selection of Permissible
Stresses in Designing Boiler Tubes, by
M. V. Pridantsev, K. A. Lanskaya.
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NLL Ref: 9022.09 1964 (3358) (loan copy)

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Investigations of the Compressibility of
Carbon Dioxide at High Temperatures, by
M. P. Vukalovich, V. V. Altunin.
RUSSIAN, per, Teploenergetika, Vol 10,
No 2, 1963, pp 92-93.
CEGB Digest
C.E. Trans 4728

Sci-Chem
Dec 68

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Resistance to Corrosion of Chromium Steels in
Steam and Water at Critical Parameters, by
V. V. Gerasimov.
RUSSIAN, per, Teploenergetika, Vol 10, No 3,
1963, pp 22-25.
NLL/9022.09 1963 3143

Sci -
Jul 67

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Nuclear Power Station Systems With Steam
Superheating in a Separate Reactor, by
L. S. Sterman.

RUSSIAN, per, Teploenergetika, Vol 10,
No 5, 1963, pp 35-36.
NLL/9022.03 1963 3184

Sci -
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The Temperature and Pressure Dependence
of the Specific Heat c_v of Water, by
A. M. Mamedov.

RUSSIAN, per, Teploenergetika, 1963,
No 5, pp 69-70.

NLL RTB 2329 (On Loan or Purchase)

Aug 65

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Investigation of Energy Losses in the Low-pressure Sections of Large Steam Turbines,
by I. I. Kirillov.

RUSSIAN, per, Teploenergetika, Vol 10, No 6,
1963, pp 40-45.
NLL/9022.03 1965 (3542)

Sci -
Aug 67 335,802

Experimental Determination of the Specific
Volume of Water at Temperatures in the Range
 $374.15 - 500^{\circ}\text{C}$ and Pressures up to 600 kg/cm^2 ,
by S. L. Rivkin and T. S. Akhundov.
RUSSIAN, per, Teploenergetika, No 9, 1963, pp
66-71.
NLL RTS 2441

Sci-Chem
Nov 67

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Experimental Determination of Enthalpy
of Water and Steam at Temperature up to
390 C and Pressures Up to 500kg/cm², by
A. E. Sheindlin, et al.

RUSSIAN, per, Teploenergetika, 1963, No 9,
pp 76-80.

NLL RTS 2439 (On Loan or Purchase)

Aug 65

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Measurement of Stresses at High Temperatures
with Self-compensating Wire Strain Gauges,
by E. S. Zakharov, et al.

RUSSIAN, per, Teploenergetika, 1963, Vol 10,
No 1, pp 68-70.

NLL 9022.09 1964 (3628) (On Loan)

Aug 65

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Removal of Sludge From Boiler Units, by M. Ya. Polyanskiy,
K. A. Klinov, 12 pp.

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JWD-TW-63-963

Sci - Engr
Jan 64

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Visual Observations of Intra-Drum Processes on an
Operational Boiler, by M. D. Panasenko, A. Ya. Antonov,
8 pp.

RUSSIAN, per, Toploenergetika, Vol X, No 2, 1963.
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FTD-TT-63-963

Sci - Engr
Jan 64

No. Reg. 1062-17 1964 (375-1)
1964 019 246,240

Experimental Study of Combustion of Pulverized
Anthracite Duff in the Furnaces of Large
Boilers, by S. L. Shagalova.
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